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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/534,788	Patrick Bauerle	VOSS:007US

32425
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INTERNATIONAL APPLICATION NO.	
PCT/EP03/12664	
I.A. FILING DATE	PRIORITY DATE
11/12/2003	11/13/2002

CONFIRMATION NO. 2638

371 FORMALITIES LETTER

OC000000019903053

Date Mailed: 08/08/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 05/13/2005
- Copy of the International Search Report filed on 05/13/2005
- Copy of IPE Report filed on 05/13/2005
- Preliminary Amendments filed on 12/15/2005
- Information Disclosure Statements filed on 05/30/2006
- Biochemical Sequence Diskette filed on 04/12/2006
- Oath or Declaration filed on 04/12/2006
- Biochemical Sequence Listing filed on 05/13/2005
- U.S. Basic National Fees filed on 05/13/2005
- Priority Documents filed on 05/13/2005
- Power of Attorney filed on 05/25/2006
- Specification filed on 05/13/2005
- Claims filed on 05/13/2005
- Abstracts filed on 05/13/2005
- Drawings filed on 05/13/2005

FULBRIGHT & JAWORSKI, LLP
IPT DOCKETING
Docketed ☑ Not Req'd ☐ Confirmation ☐
Initials 1st _____ Initials 2nd _____

AUG 1 4 2006

Attorney DLP, GSF
Docket No. AO-VOSS:007US
Action Req'd   Date Due

I mo. response (w/wt) extensions due 9/9/06.

Applicant's response filed 05/30/2006 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 01/12/2006 have not been completed.

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov**

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

KAREN M WILLIAMS

Telephone: (703) 308-9140 EXT 213

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/534,788	PCT/EP03/12664	VOSS:007US

FORM PCT/DO/EO/916 (371 Formalities Notice)

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/534,788A_

Source: _PCT_

Date Processed by STIC: _06/06/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: *10/534,788 A*

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____Wrapped Nucleics / Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2_____Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3_____Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4_____Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5_____Variable Length Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7_____Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8_____Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9_____Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10_____Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11_____Use of <220> Sequence(s) ___ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12_____PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

PCT

RAW SEQUENCE LISTING   DATE: 06/06/2006
PATENT APPLICATION: US/10/534,788A TIME: 10:58:58

Input Set : P:\VOSS007.txt
Output Set: N:\CRF4\06062006\J534788A.raw

3 <110> APPLICANT: BAUERLE, PATRICK
    HOFFMANN, PATRICK
4   WEINBERGER, SUSANNE
5   KISCHEL, ROMAN
6 <120> TITLE OF INVENTION: METHOD FOR IDENTIFIYING ANTIGEN SPECIFIC B CELLS
8 <130> FILE REFERENCE: VOSS:007US
10 <140> CURRENT APPLICATION NUMBER: 10/534,788A
12 <141> CURRENT FILING DATE: 2005-05-13
13 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/012664
15 <151> PRIOR FILING DATE: 2003-11-12
16 <160> NUMBER OF SEQ ID NOS: 89
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
22 <211> LENGTH: 21
23 <212> TYPE: DNA
24 <213> ORGANISM: artificial sequence
25 <220> FEATURE:
27 <223> OTHER INFORMATION: mus musculus primer
28 <400> SEQUENCE: 1
30 accttcaaca ccccagccat g   21
31 <210> SEQ ID NO: 2
34 <211> LENGTH: 23
35 <212> TYPE: DNA
36 <213> ORGANISM: artificial sequence
37 <220> FEATURE:
39 <223> OTHER INFORMATION: mus musculus primer
40 <400> SEQUENCE: 2
42 gctcggtcag gatcttcatg agg   23
43 <210> SEQ ID NO: 3
46 <211> LENGTH: 20
47 <212> TYPE: DNA
48 <213> ORGANISM: artificial sequence
49 <220> FEATURE:
51 <223> OTHER INFORMATION: mus musculus primer
52 <400> SEQUENCE: 3
54 gctacacatt cagtagcttc   20
55 <210> SEQ ID NO: 4
58 <211> LENGTH: 20
59 <212> TYPE: DNA
60 <213> ORGANISM: artificial sequence
61 <220> FEATURE:
63 <223> OTHER INFORMATION: mus musculus primer
64 <400> SEQUENCE: 4

Does Not Comply
Corrected Diskette Needed
CP 5.2, 6)

RAW SEQUENCE LISTING   DATE: 06/06/2006
PATENT APPLICATION: US/10/534,788A   TIME: 10:58:58

Input Set : F:\VOSS007.txt
Output Set: N:\CRF4\06062006\J534788A.raw

```
 67 gtatggcatg tttaccatcg                                    20
 70 <210> SEQ ID NO: 5
 71 <211> LENGTH: 20
 72 <212> TYPE: DNA
 73 <213> ORGANISM: artificial sequence
 75 <220> FEATURE:
 76 <223> OTHER INFORMATION: mus musculus primer
 78 <400> SEQUENCE: 5
 79 tcagtagctt ctggatagag
 82 <210> SEQ ID NO: 6
 83 <211> LENGTH: 26
 84 <212> TYPE: DNA
C--> 85 <213> ORGANISM: artificial primer
 87 <220> FEATURE:
 88 <223> OTHER INFORMATION: mus musculus primer
 90 <400> SEQUENCE: 6
 91 gtatggcatg tttaccatcg tattac                             26
 94 <210> SEQ ID NO: 7
 95 <211> LENGTH: 20
 96 <212> TYPE: DNA
 97 <213> ORGANISM: artificial sequence
 99 <220> FEATURE:
100 <223> OTHER INFORMATION: mus musculus primer
102 <400> SEQUENCE: 7
103 gttacaattt ctccgacaag                                    20
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 20
108 <212> TYPE: DNA
109 <213> ORGANISM: artificial sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: mus musculus primer
114 <400> SEQUENCE: 8
115 gtcgcaggcg gaataatcac                                    20
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 20
120 <212> TYPE: DNA
121 <213> ORGANISM: artificial sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: mus musculus primer
126 <400> SEQUENCE: 9
127 tctccgacaa gtggattcac                                    20
130 <210> SEQ ID NO: 10
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: artificial sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: mus musculus primer
138 <400> SEQUENCE: 10
139 gcaggcggaa taatcacccg                                    20
```

Pls correct as Artificial Sequence — (handwritten annotation pointing to line 85) 20

```
142 <210> SEQ ID NO: 11
143 <211> LENGTH: 21
144 <212> TYPE: DNA
145 <213> ORGANISM: artificial sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: homo sapiens primer
150 <400> SEQUENCE: 11
151 tggcagatga gcttggactt g                                    21
154 <210> SEQ ID NO: 12
155 <211> LENGTH: 21
156 <212> TYPE: DNA
157 <213> ORGANISM: artificial sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: homo sapiens primer
162 <400> SEQUENCE: 12
163 acactctccc ctgttgaagc t                                    21
166 <210> SEQ ID NO: 13
167 <211> LENGTH: 20
168 <212> TYPE: DNA
169 <213> ORGANISM: artificial sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: homo sapiens primer
174 <400> SEQUENCE: 13
175 gtgctccctt catgcgtgac                                      20
178 <210> SEQ ID NO: 14
179 <211> LENGTH: 21
180 <212> TYPE: DNA
181 <213> ORGANISM: artificial sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: homo sapiens primer
186 <400> SEQUENCE: 14
187 actcgtcata ctcctgcttg c                                    21
190 <210> SEQ ID NO: 15
191 <211> LENGTH: 24
192 <212> TYPE: DNA
193 <213> ORGANISM: artificial sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: homo sapiens primer
198 <400> SEQUENCE: 15
199 tggaagaggc acgttctttt cttt                                 24
202 <210> SEQ ID NO: 16
203 <211> LENGTH: 20
204 <212> TYPE: DNA
205 <213> ORGANISM: artificial sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: homo sapiens primer
210 <400> SEQUENCE: 16
211 agttacccga ttggagggcg                                      20
214 <210> SEQ ID NO: 17
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RAW SEQUENCE LISTING   DATE: 06/06/2006
PATENT APPLICATION: US/10/534,788A   TIME: 10:58:58

Input Set : P:\VOSS007.txt
Output Set: N:\CRF4\06062006\J534788A.raw

215 <211> LENGTH: 19
216 <212> TYPE: DNA
217 <213> ORGANISM: artificial sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: homo sapiens primer
222 <400> SEQUENCE: 17
223 ccttccaggc cactgtcac   19
226 <210> SEQ ID NO: 18
227 <211> LENGTH: 20
228 <212> TYPE: DNA
229 <213> ORGANISM: artificial sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: homo sapiens primer
234 <400> SEQUENCE: 18
235 gtggggcgcc ccaggcacca   20
238 <210> SEQ ID NO: 19
239 <211> LENGTH: 23
240 <212> TYPE: DNA
241 <213> ORGANISM: artificial sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: homo sapiens primer
246 <400> SEQUENCE: 19
247 gatggaggcg gcgatccaca cgg   23
250 <210> SEQ ID NO: 20
251 <211> LENGTH: 23
252 <212> TYPE: DNA
253 <213> ORGANISM: artificial sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: homo sapiens primer
258 <400> SEQUENCE: 20
259 cagrtgcagc tggtgcartc tgg   23
262 <210> SEQ ID NO: 21
263 <211> LENGTH: 23
264 <212> TYPE: DNA
265 <213> ORGANISM: artificial sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: homo sapiens primer
270 <400> SEQUENCE: 21
271 saggtccagc tggtrcagtc tgg   23
274 <210> SEQ ID NO: 22
275 <211> LENGTH: 23
276 <212> TYPE: DNA
277 <213> ORGANISM: artificial sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: homo sapiens primer
282 <400> SEQUENCE: 22
283 caggtccagc ttgtacagtc tgg   23
286 <210> SEQ ID NO: 23
287 <211> LENGTH: 23

```
288  <212> TYPE: DNA
289  <213> ORGANISM: artificial sequence
291  <220> FEATURE:
292  <223> OTHER INFORMATION: homo sapiens primer
294  <400> SEQUENCE: 23
295  sagrtcacct tgaaggagtc tgg                                     23
298  <210> SEQ ID NO: 24
299  <211> LENGTH: 23
300  <212> TYPE: DNA
301  <213> ORGANISM: artificial sequence
303  <220> FEATURE:
304  <223> OTHER INFORMATION: homo sapiens primer
306  <400> SEQUENCE: 24
307  saggtgcagc tggtggartc tgg                                     23
310  <210> SEQ ID NO: 25
311  <211> LENGTH: 23
312  <212> TYPE: DNA
313  <213> ORGANISM: artificial sequence
315  <220> FEATURE:
316  <223> OTHER INFORMATION: homo sapiens primer
318  <400> SEQUENCE: 25
319  gaggtgcagc tgktggagwc ygg                                     23
322  <210> SEQ ID NO: 26
323  <211> LENGTH: 23
324  <212> TYPE: DNA
325  <213> ORGANISM: artificial sequence
327  <220> FEATURE:
328  <223> OTHER INFORMATION: homo sapiens primer
330  <400> SEQUENCE: 26
331  cagctgcagc tacagcagtg ggg                                     23
334  <210> SEQ ID NO: 27
335  <211> LENGTH: 23
336  <212> TYPE: DNA
337  <213> ORGANISM: artificial sequence
339  <220> FEATURE:
340  <223> OTHER INFORMATION: homo sapiens primer
342  <400> SEQUENCE: 27
343  cagstgcagc tgcaggagtc sgg                                     23
346  <210> SEQ ID NO: 28
347  <211> LENGTH: 23
348  <212> TYPE: DNA
349  <213> ORGANISM: artificial sequence
351  <220> FEATURE:
352  <223> OTHER INFORMATION: homo sapiens primer
354  <400> SEQUENCE: 28
355  gargtgcagc tggtgcagtc tgg                                     23
358  <210> SEQ ID NO: 29
359  <211> LENGTH: 23
360  <212> TYPE: DNA
```

```
<210> SEQ ID NO 56
<211> LENGTH: 31
<212> TYPE: DNA
<213> ORGANISM: artificial sequence
<220> FEATURE:
<223> OTHER INFORMATION: homo sapiens primer
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: (31)..(31)
<223> OTHER INFORMATION: n denotes a variable number of nucleotides which are
      part of the
      sequence of specific VL clones
<400> SEQUENCE: 56
      ggagccgccg ccgccagaac caccaccacc n                                    31
```

'n' Can Represents only Single nucleotide See Item 13 on Error Summary Sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/06/2006
PATENT APPLICATION: US/10/534,788A   TIME: 10:58:59

Input Set : P:\VOSS007.txt
Output Set: N:\CRF4\06062006\J534788A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:56; N POS. 31
Seq#:57; N POS. 34

VERIFICATION SUMMARY   DATE: 06/06/2006
PATENT APPLICATION: US/10/534,788A   TIME: 10:58:59

Input Set : **P:\VOSS007.txt**
Output Set: **N:\CRF4\06062006\J534788A.raw**

L:85 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:517 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0